

CLAIMS

1. A power supply control device for an apparatus which is supplied with electric power from a power supply, said device comprising:

a calculator for calculating a power consumption value of said device based on configuration information on each configuration unit constituting said apparatus and an amount of power consumed by each configuration unit; and

a controller for performing a predetermined procedure based on the power consumption value calculated by said calculator.

2. The power supply control device according to claim 1, further comprising a detector for detecting an amount of power supplied from said power supply to said apparatus during operation of said apparatus, wherein said controller performs the predetermined processing in accordance with the detection result of said detector.

3. The power supply control device according to claim 1, further comprising:

a storage element for storing said configuration information; and

an input device for inputting said configuration information to said storage element so as to be stored therein.

4. The power supply control device according to claim 2, further comprising an input device for inputting said configuration information to said calculator, said calculator being operable to calculate the amount of power consumption of said device based on the configuration information inputted by said input device and the amount of power detected by said detector.

5. The power supply control device according to claim 3, wherein said storage element stores a configuration unit of those components which are likely to be changed in the configuration of said device.

6. The power supply control device according to claim 1, wherein said controller comprises:

a comparator for making a comparison between the amount of power consumption calculated by said calculator and a power supply capacity of said power supply; and

a control operation element for performing a predetermined control operation based on the result of comparison performed by said comparator.

7. The power supply control device according to claim 6, further comprising:

a power supply capacity calculator for calculating the power supply capacity of said power supply based on the configuration information on each power supply configuration unit constituting said power supply and an available power supply capacity which is able to be supplied by each power supply configuration unit;

wherein said comparator makes a comparison between the power supply capacity calculated by said power supply capacity calculator and said amount of power consumption.

8. An apparatus comprising:

a main unit proper having at least one processing functional block for processing information;

a power supply unit having at least one power supply functional block for supplying electric power to said processing functional block; and

a power supply control device including a controller for calculating an amount of power consumption of said apparatus proper based on configuration information of said processing functional block and an amount of power consumed by each power supply functional block, said controller

calculating an amount of power supplied by said power supply unit based on the configuration information of said power supply functional block and an amount of power supplied to each power supply functional block, said controller performing a predetermined processing in accordance with the amount of power consumed by said main unit thus calculated and the amount of power supplied by said power supply unit thus calculated.

9. The apparatus according to claim 8, further comprising a detector for detecting an amount of power outputted from said power supply unit to said main unit during operation of said apparatus, wherein said controller performs the predetermined processing in accordance with the detection result of said detector.

10. A medium being readable by a computer and having a program recorded thereon which is executed by said computer, said computer being operated, when executing said program, to calculate an amount of power consumed by a device, which is supplied with electric power from a power supply, based on configuration information on each configuration unit constituting said device and an amount of power consumed by each configuration unit; and

to perform a predetermined processing based on the amount of power consumption thus calculated.

11. A data recording medium being readable by a computer, said medium storing configuration units constituting a device, which is supplied with electric power from a power supply, and an amount of power consumed by said configuration units as power consumption information, said medium retrievably storing said configuration units constituting said device and an amount of power consumption corresponding to each configuration unit, in order that a computer calculates a power consumption of said device based on said configuration information and said power

consumption information and performs a predetermined processing based on the power consumption value thus calculated.

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